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High Resolution D/N IR Vandal Dome Camera **SCV-2080R** User Guide

Before installing and operating this product,
please read this manual thoroughly.

ENGLISH

Thank you for purchasing a **SAMSUNG CCD CAMERA.**
Before operating the camera, confirm the camera model and correct input power voltage. In order to that you can understand this manual thoroughly, we will introduce our model description.

■ SIR-4260 SERIES

- NTSC MODEL
  SCV-2080RN
- PAL MODEL
  SCV-2080RP

■ MODEL DESCRIPTION

- SCV-2080RX
  - SIGNAL SYSTEM

- SIGNAL SYSTEM
  N → NTSC MODEL
  P → PAL MODEL

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CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION :
TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER (OR BACK),
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED
SERVICE PERSONNEL.

The lightning flash with an arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

INFORMATION - This equipment has been tested and found to comply with limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

WARNING - Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

WARNING : To prevent electric shock and risk of fire hazards:

- ◆ Do NOT use power sources other than that specified.
- ◆ Do NOT expose this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all local codes.

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Features

Ultra High Sensitivity

The built-in high sensitivity CCD produces a clear image even in 0Lux(B/W, IR-LED ON)or lower illumination.

High Resolution

By adopting a diagonal 6mm(1/3") 410,000 (NTSC) pixel, 470,000(PAL) pixel SONY CCD, the camera produces clear picture quality with a horizontal resolution of 600 TV lines for color and a horizontal resolution of 700 TV lines for BW mode.

SSNR 3 (Samsung Super Noise Reduction)

The high-performance W-V DSP chip effectively removes low-light gain noise and ghosting to provide clear images even in dark environments.

DIS (Digital Image Stabilizer)

The DIS function compensates for any camera movement, to produce more stable pictures.

SSDR (Samsung Super Dynamic Range)

For images with high contrast between bright and dark areas from difficult lighting conditions such as backlighting, this camera selectively illuminates darker areas while retaining the same light level for brighter areas to even out the overall brightness.

DAY&NIGHT(ICR)

This camera has a function that automatically selects the mode that is appropriate for daytime or night-time conditions.
The COLOR mode operates in daytime conditions to provide optimum colors, and BW mode operates in night-time conditions to enhance the definition of the image.

IR MODE Function

This function prevents the saturation of the image by the IR illuminators at short distances.

Communication

RS-485, Coaxial communication methods are supported.
- RS-485 Communications
  : SAMSUNG-T, Pelco-P, Pelco-D, Vicon, Panasonic, Bosch, Honeywell, SAMSUNG-E
- Coaxial Communications
  : Pelco Coaxitron

OSD

The camera's OSD is complimented by 18 languages.
- NTSC : Korean, English, French, Spanish, Japanese, Portuguese, Taiwanese
- PAL : English, French, German, Spanish, Italian, Chinese, Russian, Czech, Polish, Romanian, Serbian, Swedish, Danish, Turkish, Portuguese

Outdoor Visibility range 30M

The IR LEDs of the SIR-4260 automatically illuminates viewing area in the extreme darkness allowing the camera a long-range visibility of up to 30 meters.

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Samsung Techwin cares for the environment at all product manufacturing stages to preserve the environment, and is taking a number of steps to provide customers with more environment-friendly products.The Eco mark represents Samsung Techwin's will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.

Warnings & Cautions

This information is provided to ensure your safety and to prevent any losses, financial or otherwise. Please read it carefully and use the product accordingly.

* For product inquiries, please contact the retail shop where you bought the camera. The use of equipment such as an aerial ladder while providing after-sales service shall be at your expense.
* Separate the power plug during a thunder storm.
* This product is only part of a surveillance system. Therefore, we can't compensate for material loss and/or personal injuries by robbery, fire, natural disaster or something like this type.

Warning/Attention/Special Mark Messages

	Ignoring this information may result in material loss and/or serious personal injuries including death.		Ignoring this information may result in material loss and/or a slight injuries.
	Indicates "Never Allowed."		Indicates "No Disassembling."

Correct Disposal of This Product
(Waste Electrical & Electronic Equipment)
(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

Precautions

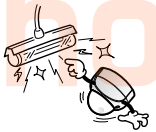
Do not install under extreme temperature conditions.

Use only under temperature conditions between -10°C and +50°C. Provide good ventilation when using in high temperature conditions.

Do not install in high humidity environment.

May lower image quality.

Do not install under unstable lighting conditions.



Severe lighting changes or flickering may hinder normal camera operation.

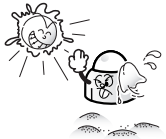
Avoid touching the camera lens.

The lens is the most important component of the camera. Be careful not to smear it with fingerprints.

Do not drop the camera or subject it to physical shock.

May cause a product malfunction.

Never keep the camera face to strong light directly.



May damage the CCD.

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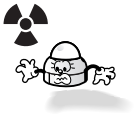
Precautions

Do not expose the camera to radioactivity.



Radioactivity exposure may damage the CCD.

Notes

- Exposure to a spotlight or an object emitting strong light may cause smear or blooming.
- Ensure that the power source complies with normal specifications before supplying it to the camera.
- In case of IR LED has been lighted, do not lighten directly eye.

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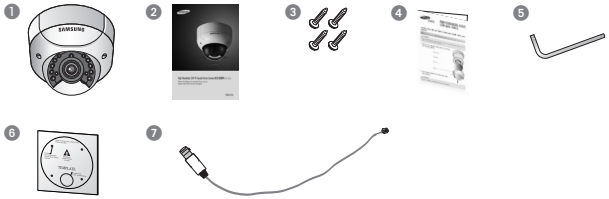
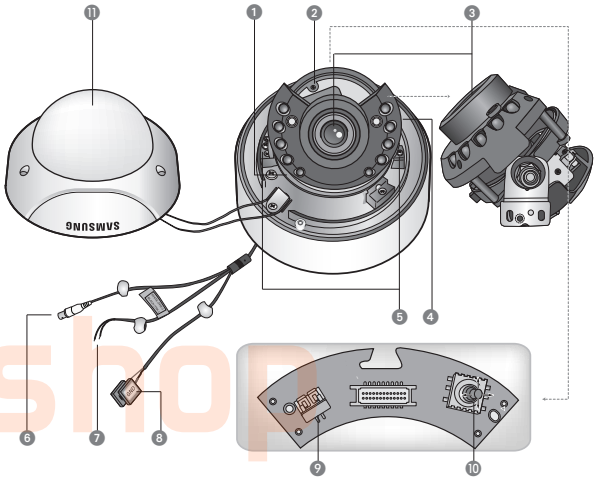
Components and Accessories



❶ SCV-2080R ❷ Instruction Manual ❸ Ø5 Tapping Screw 4EA ❹ Quick Install Guide
❺ Wrench ❻ Template ❼ Installation Video Output Cable

Overview



❶ **Pan Base** : control panning angle of camera
❷ **Rotate Base** : control rotating angle of camera
❸ **X3.6 Vari-focal Lens Module**
❹ **Flush Housing**
❺ **Pan Base Holding Screws** : fix panned position
❻ **Video output terminal**
❼ **RS-485 Control terminal** : The detailed decription refers to p14.
❽ **Power input terminal**
❾ **Video Output Terminal to Monitor**
❿ **Function Setup switch** : display the menu on the screen and move the cursor to four directions to confirm status or after changing a selected item.
⓫ **Dome Cover**

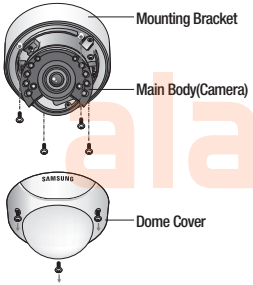
Installation

Installation

Notes

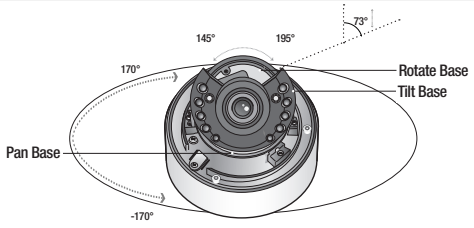
- The installation should be done by qualified service personnel or system installers.
- If the ceiling material is not strong enough to hold the installation screws, the camera may fall off. Reinforce the ceiling as needed.
- Take care not to drop the product during installation. Do not allow anyone to stand below the installation area.

1) Remove the dome cover and shield case from the main body by loosening the three dome cover screws.



2) And then remove the main body from the mounting bracket by the four main body screws.

Adjust the panning, tilting and rotate mechanism while checking the position on the monitor

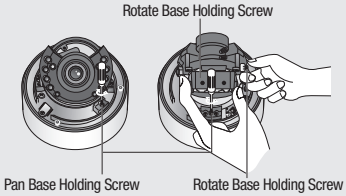


1) You can adjust camera to any direction by using Pan, Tilt, Rotate mechanism.
   - Pan Base moves by 170° to each direction and 340° on the whole.
   - Tilt Base covers total 146° angle(73° to each side).
   - The angle range of the Rotate Base is the same as that of the Pan Base.But one direction range is 195° and another is 145°

2) Methods of adjustment
   - Wall installation
     1. After mounting the camera to the wall, loosen the rotate base holding screws.
     2. Adjust to the correct panning angle.
     3. Then adjust the tilt angle by rotating the base.
     4. Once complete re-tighten the rotate base holding screws.
   - Ceiling installation
     1. After mounting the camera to the ceiling, loosen the rotate base holding screws.
     2. Adjust to the correct panning angle.
     3. Then adjust the tilt angle by rotating the base.
     4. Once complete re-tighten the rotate base holding screws.

Notes

- When adjusting the rotating angle, loosen rotate base holding screw as follows Figure A. And then tighten it again.
- When adjusting the tilting angle, grip the tilt base and adjust tilting angle.
- When adjusting the panning angle, loosen pan base holding screws as the follows Figure B. And then tighten them again.
- The 2 LED sections can be tilted inside the case to a maximum angle of 73°, this however will not alter the illuminated range.



- When adjusting the tilt mechanism hold the Tilt base and NOT the lens.

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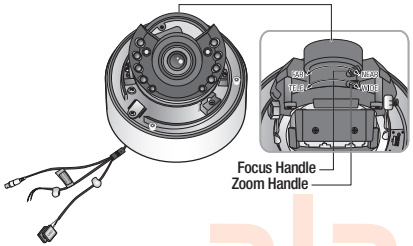
Installation

Adjusting varifocal lens zoom and focus

1) Unlock the zoom (focus) handle by turning anti-clockwise.
2) Adjust the zoom (focus) by moving the handle to WIDE (NEAR) or TELE (FAR).
3) After adjustment, tighten the zoom (or the focus) handle, taking care that the adjusted position does not change.

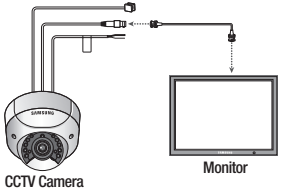


Connection

Connecting to Monitor

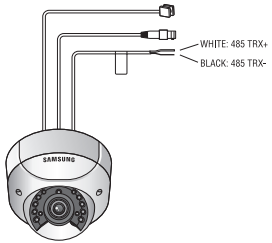
Please connect the video output terminal located on the back of the camera to the monitor.

- The connection method varies depending on the type of monitor and accessories. Please refer to the user's manual for each instrument.
- Please turn off the power when connecting.



Connecting to Power

The recommended adaptor specification for SCV-2080R is DC 12V/4A.
Please check the standard power requirement before connecting the power.



When the resistance value of copper wire is at [20°C(68°F)]

Copper wire size(AWG)	#24(0.22㎟)	#22(0.33㎟)	#20(0.52㎟)	#18(0.83㎟)
Resistance value(Ω/m)	0.078	0.050	0.030	0.018
Voltage drop(V/m)	0.028	0.018	0.011	0.006

- Therefore having an excessively long distance between the power adaptor and the camera may affect the camera's performance.

※ **Standard voltage for camera operation : DC 12V±10%, AC 24V±10%**
※ **There may be some deviation in voltage drop depending on the type of wire and the manufacturer.**

Notes

- Please use a power adapter that meets the required standards.
- Please connect the power after installation.

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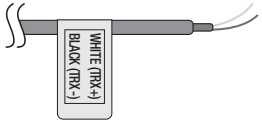
Connection

RS-485 communication control

Connecting to RS-485 Control Cable



CONTROL CABLE	SPEC
WHITE (TRX+)	RS-485+
BLCAK (TRX-)	RS-485-

Using RS-485 communication will enable you to control the OSD menu from a SAMSUNG TECHWIN System Controller or DVR.

(1) Connection to a PC.

Connect the camera to the PC via a RS-485 converter using RS-485 and a serial cable.
EX) SERIAL PORT OF THE PC(COM1) → SERIAL CABLE → RS-485 CONVERTER → RS-485 CONTROL CABLE

(2) Connection to a DVR or System Controller.

Connect the RS-485 cable to the connection ports of the DVR or System Controller.

485 Control Board Connection Port	RS-485 Control Port
(+) CONNECTION TERMINAL	WHITE (TRX+)
(-) CONNECTION TERMINAL	BLACK (TRX-)

* RS-485 Communication establishment initial value

Item	Camera ID	BAUD RATE	UART MODE	RET PKT
Initial value	1	9600	8-NONE-1	ENABLE

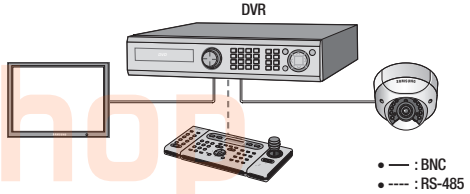
Notes

- When making a control system to control the camera, please use to the SAMSUNG-T PROTOCOL or PELCO-P, PELCO-D, VICON, PANASONIC, BOSCH, HONEYWELL, SAMSUNG-E PROTOCOL.
- When you connecting to RS-485 control cable, please peel off the outer skin inside the RS-485 control cable.
- In case of SCC-101 connection, change communication mode to 『8-E-1』 at 『Communication configuration』 menu. (For more information, refer to SCC-101 manual.)

Using Coaxial Communications

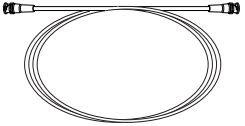
- Coaxial Communications System
- OSD Control method

CAMERA	DVR	CONTROLLER
SET	MENU / ENTER	OSD KEY
UP	UP KEY	JOYSTICK UP
DOWN	DOWN KEY	JOYSTICK DOWN
LEFT	LEFT KEY	JOYSTICK LEFT
RIGHT	RIGHT KEY	JOYSTICK RIGHT



– Video Cable

The camera's video output port is connected to the monitor with a BNC coaxial cable, shown below : If the distance between the camera and the monitor exceeds the recommended maximum, please use an auxiliary video amp.



Distance	Recommended Cable Specification
300m	3C2V(RG-59/U)
450m	5C2V(RG-6/U)
600m	7C2V(RG-11/U)

Notes

- If the camera is controlled through coaxial communication, please use a video amp intended for coaxial communications. Regular video amps do not transfer coaxial signals.

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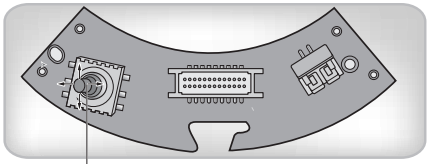
Operating Your Camera

Menu Configuration

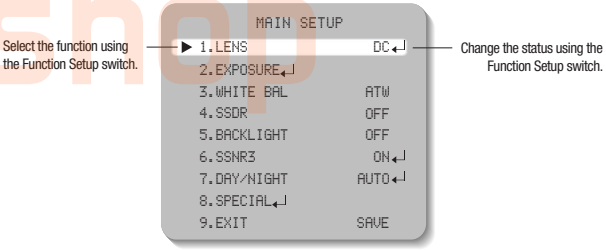
MAIN SETUP MENU			
LENS	●DC		
EXPOSURE	●BRIGHTNESS ●SENS-UP	●SHUTTER ●RETURN	●AGC
WHITE BAL	●ATW ●MANUAL	●OUTDOOR ●AWC→SET	●INDOOR
SSDR	●OFF	●ON	
BACKLIGHT	●OFF	●BLC	●HLC
SSNR3	●OFF	●ON	
DAY/NIGHT	●COLOR	●B/W	●AUTO
SPECIAL	●IMAGE ADJ ●MOTION DET ●COMM ADJ	●CAM TITLE ●PRIVACY ●LANGUAGE	●SYNC ●DIS ●RETURN
EXIT	●SAVE	●NOT SAVE	●RESET

Menu Setup

Use the Function Setup switch whithin the camera.



1. Press the Function Setup switch.
   • Main setup menu is displayed on the monitor screen.



2. Select a desired function using the Function Setup switch.
   • Place the cursor over a desired item.
3. Set up a selected item by using the Function Setup switch.
4. To finish the setting, select 'EXIT' and press the Function Setup switch.

Notes

- An item with the ↵ icon also has sub menus. To select a sub menu, select an item with the icon and press the Function Setup switch.
- An item with the - - - icon is unavailable due to function settings.

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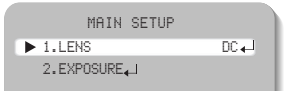
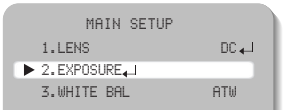
LENS

Using this function, you can control the screen brightness.
1. When the SETUP menu screen is displayed, select 'LENS' by using the Function Setup switch so that the arrow indicates 'LENS'.
2. DC : You can adjust the minimum shutter and maximum value of ESC shutter mode.

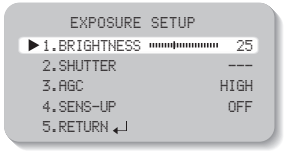


3. The Lens mode has sub menu items as listed below.
   - BRIGHTNESS : Adjusts the video brightness.
   - FOCUS ADJ : To adjust the DC lens focus correctly, you must activate the Focus Settings mode under each lens menu. Activate the Focus Settings mode, adjust the lens focus, and then deactivate the settings mode.

EXPOSURE



1. When the SETUP menu screen is displayed, select 'EXPOSURE' by using the Function Setup switch.
2. Select a desired mode using the Function Setup switch.



➲ SHUTTER : You can select the shutter.
- --- : Shutter speed is fixed at 1/60sec(1/50sec)
- ESC : Select this to control the shutter speed automatically. If ESC is selected, the shutter speed is automatically controlled depending on the ambient illumination of the subject.
- MANUAL : You can control shutter speed manually. (NTSC MODEL : 1/60~1/120,000, PAL MODEL : 1/50~1/120,000)
- A.FLK : Select this when you see picture flicker, this can happen when the frequency of the local lighting clashes with the camera.

Notes

- When the SHUTTER is set to MANUAL or A.FLK mode, SENS-UP will be disabled.

➲ AGC(AUTO GAIN CONTROL) : The higher the gain level, the brighter the screen - but the higher the noise.
- OFF : Deactivates the AGC function.
- LOW : Allows automatic gain control from 5.3dB to 32dB.
- HIGH : Allows automatic gain control from 5.3dB to 37dB.

➲ SENS-UP : When it is night or dark, the camera automatically detects the light level and maintains a clear picture if this mode is activated.
- OFF : Deactivates the SENS-UP function.
- AUTO : Activates the SENS-UP function.

➲ RETURN : Select this to save the changes in the EXPOSURE menu and return to the SETUP menu.

Notes

- If you press the Function Setup switch to 'AUTO' mode, you can adjust brightness by increasing or decreasing the shutter speed. (x2 ~ x512)
- Note that the higher the zoom level, the brighter the screen, but the more likely there will be a ghosting effect.
- It is normal for Noise, Spots and Whitish symptoms to appear in SENS-UP mode when the D-zoom level is increased.

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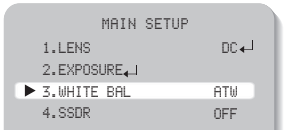
White Balance (White Bal)

Use the White Balance function to adjust the screen color.

1. When the SETUP menu screen is displayed, select 'White Bal' by using the Function Setup switch so that the arrow indicates 'White Bal' .
2. Select a desired mode using the Function Setup switch.



※ Select one of the following 5 modes, as appropriate for your purpose.

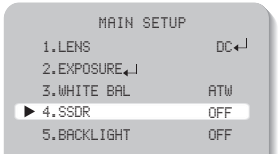
- ATW : Select this when the color temperature is between 1,700˚K and 11,000˚K.
- OUTDOOR : Select this when the color temperature is between 1,700˚K and 11,000˚K. (sodium light inclusion)
- INDOOR : Select this when the color temperature is between 4,500˚K and 8,500˚K.
- MANUAL : Select this to fine-tune White Balance manually. Set White Balance first by using the ATW or AWC mode. After that switch to MANUAL mode, fine-tune the White Balance and then press the Function Setup switch.
- AWC→SET : To find the optimal luminance level for the current environment, point the camera towards a sheet of white paper and press the Function Setup switch. If the environment changes, readjust it.

Notes

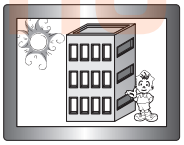
- White Balance may not work properly under the following conditions. In this case select the AWC mode.
  1. When the color temperature of the environment surrounding the subject is out of the control range (e.g. clear sky or sunset).
  2. When the ambient illumination of the subject is dim.
  3. If the camera is directed towards a fluorescent light or is installed in a place where illumination changes dramatically, the White Balance operation may become unstable.

SSDR (Samsung Super Dynamic Range)

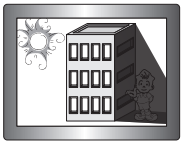
SSDR illuminates darker spots of an image while retaining the same light level for brighter spots to even out the overall brightness of images with high contrast between bright and dark spots.



1. When the SETUP menu screen is displayed, select 'SSDR' by using the switch so that the arrow indicates 'SSDR'.
2. Use the switch to change the SSDR level according to the contrast between bright and dark areas.



SSDR ON



SSDR OFF

BACKLIGHT

Unlike conventional cameras, the SCV-2080R is designed to deliver a distinctive subject and background at the same time, even when the subject is backlight, by using the features of the proprietary W-V DSP chip.

1. When the SETUP menu screen is displayed, select 'BACKLIGHT' by using the Function Setup switch so that the arrow indicates 'BACKLIGHT'.

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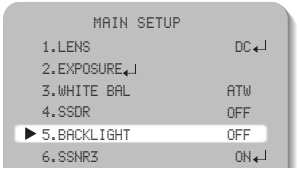
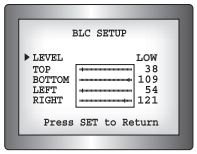


2. Select a desired mode using the Function Setup.
   - BLC : Enables a user to directly select a desired area from a picture, and to view the area more clearly.
   - HLC (High Light Compensation) :
     If the scene contains extremely bright light areas such as; from car headlights, the light can mask out much of the on-screen detail.
     - LEVEL : Adjust level of the HLC function.
     - LIMIT : Enable to change the operating condition.
     - MASK COLOR/TONE : Change the color / transparency of the masking area. (Black, Red, Blue, Cyan, Magenta)
     - TOP/BOTTOM/LEFT/RIGHT : Adjust the area to be enhanced
   - OFF : Not being used

3. Select a desired mode using the Function Setup switch and press the Function Setup switch.
   - Select 'BLC' to adjust the area to be enhanced then adjust the level.
   - HLC : Enable the user to change the level, limit, mask color/tone and area.



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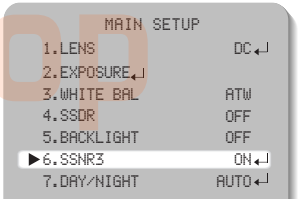
Notes

- Because there can be a difference in the effectiveness of HLC according to the amount of light area in the screen, optimize the installation angle for the best HLC performance.
- When dark, the HLC is only activated when a bright light exceeding a specific size in NIGHT ONLY mode.
- The HLC is not activated in day light or when bright light is not present at night in NIGHT ONLY mode.
- BLC Function doesn't work in the B/W mode of the DAY/NIGHT menu.

SSNR3

This function reduces the background noise in a low luminance environment.

1. When the SETUP menu screen is displayed, select 'SSNR3' by using the Function Setup switch so that the arrow indicates 'SSNR3'.



2. Select a desired mode using the Function Setup switch.
   - OFF : Deactivates SSNR3. Noise is not reduced.
   - ON : Activates SSNR3 so that noise is reduced.
3. Set the SSNR3 mode to 'ON' and press the Function Setup switch. Then you can adjust the noise reduction level.

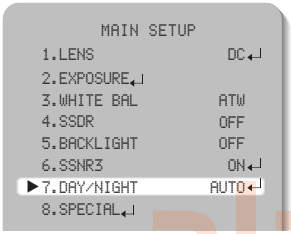
Notes

- You cannot set the SSNR3 to 'ON' or 'OFF' when the AGC mode of the EXPOSURE menu is 'OFF'.
- When adjusting the noise reduction level in the SSNR mode, remember that the higher the level set, the more the noise level will be reduced, as will the brightness of the image.

DAY/NIGHT

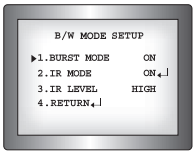
You can display pictures in color or black and white.

1. When the SETUP menu screen is displayed, select 'DAY/NIGHT' by using the Function Setup switch so that the arrow indicates 'DAY/NIGHT' .

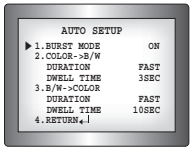


2. Select a desired mode using the Function Setup switch according to the picture display you want.

- COLOR : The picture is always displayed in color.
- B/W : The picture is always displayed in black and white.
  - IR MODE : When IR LED is turned on in B/W, the objects can be clearly identified due to the function that decreases screen saturation of objects within a short distance.
    - TOP/BOTTOM/LEFT/RIGHT : Adjust the range according to the location of objects.
  - IR LEVEL : Select LOW when objects appears within a short distance or select HIGH when objects appears within a long distance on the screen.



- AUTO : The mode is switched to 'Color' in a normal environment, but switches to 'B/W' mode when ambient illumination is low. To set up the switching time for AUTO mode, press the Function Setup switch. You can turn on or off the burst signal on B/W mode.



- BURST MODE : You can turn on or off the burst signal on B/W mode.
- DURATION : You can select brightness of illumination about changing the day/night mode.
- DWELL TIME : You can select the duration time about changing the day/night mode.
  →3s, 5s, 7s, 10s, 15s, 20s, 30s, 40, 60s

	Color → B/W	B/W → Color
Fast	2.5 lux	5 lux
Slow	1 lux	10 lux

* The day/night switching point of the camera can be adjusted.

Notes

- When AGC in the EXPOSURE menu is 'OFF', '---' mode operates as like selecting 'COLOR' mode and 'AUTO' mode can not be selected.

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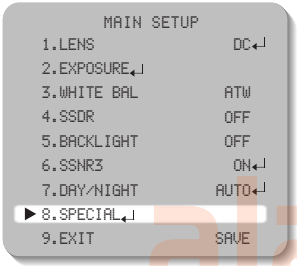
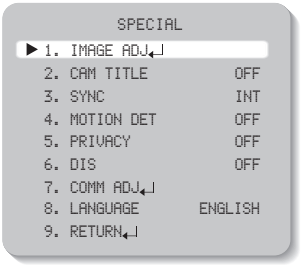
SPECIAL

1. When the SETUP menu screen is displayed, select 'SPECIAL' by using the Function Setup switch so that the arrow indicates 'SPECIAL'.



2. Select a desired mode using the Function Setup switch.



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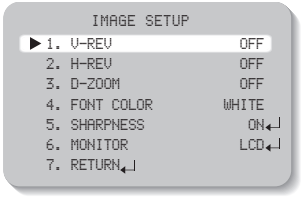
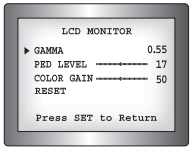
⊃ IMAGE ADJ :

1) When the SETUP menu screen is displayed, select 'IMAGE ADJ' by using the Function Setup switch so that the arrow indicates 'IMAGE ADJ'.
2) Select a desired mode using the Function Setup switch.



- V-REV : You can flip the picture vertically on the screen.
- H-REV : You can flip the picture horizontally on the screen.
- D-ZOOM : You can use a digital zoom of x1 ~ x16.
- FONT COLOR : You can change the OSD font color. (White, Yellow, Green, Red, Blue)
- SHARPNESS : As you increase this value, the picture outline becomes stronger and clearer. Adjust this value appropriately depending on the sharpness of the picture.



- Monitor : Please change the settings value of video appropriate to your monitor.
  - LCD : Please select this menu item when using a LCD monitor.
  - CRT : Please select this menu item when using a CRT monitor.
  - USER : Please use this menu item when using a monitor other than standard ones. You can change the gamma, PED level, and color gain in the sub menus.
- RETURN : Select this to save the settings for the IMAGE ADJ menu and to return to the SETUP menu.

Notes

- When the V-REV or H-REV mode is enabled, the text on the screen does not flip.
- If you increase the SHARPNESS level too high, the picture may become distorted or noise may appear.

Operating Your Camera

CAM TITLE : If you enter a title, the title will appear on the monitor.

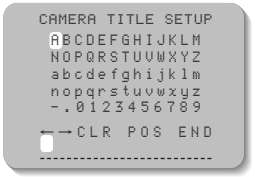
1) If the SPECIAL menu screen is displayed, use the Function Setup switch so that the arrow indicates 'CAM TITLE'.

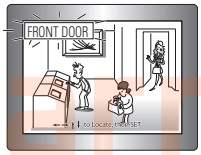
2) Set it to 'ON' by using the Function Setup switch.

3) Press the Function Setup switch.

4) Use the Function Setup switch to move to a desired letter and select the letter by pressing the Function Setup switch. Repeat this to enter multiple letters. You can enter up to 15 letters.

5) Enter a title, move the cursor to 'POS' and press the Function Setup switch. The entered title appears on the screen. Select the position to display the title on the screen by using the Function Setup switch and press the Function Setup switch. When the position is determined, select 'END' and press the Function Setup switch to return to the SPECIAL menu.





Notes

- When the CAM TITLE menu is 'OFF', no title will be displayed on the monitor screen even if you enter one.
- Only English is available in this mode.
- If you move the cursor to CLR and press the Function Setup switch, all the letters are deleted. To edit a letter, change the cursor to the bottom left arrow and press the Function Setup switch. Move the cursor over the letter to be edited, move the cursor to the letter to be inserted and then press the Function Setup switch.

SYNC : In areas where the supply is at 60Hz(NTSC), 50Hz(PAL), you can synchronize the output phase of multiple cameras using the power synchronization function (Line-Lock) without using a synchronization signal generator.

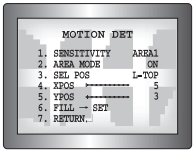
- INT : Internal Synchronization Type
- L/L : Power Synchronization Type, Line-lock
- Press the Function Setup switch.
- You can select a desired phase from 0 to 359 when select 'phase'.

Notes

- When using AC power at 60Hz(NTSC), 50Hz(PAL) frequency, you can use the L/L type synchronization.
- When the power is DC 12V, the SYNC menu is fixed to the 'INT' mode.

MOTION DET :

This product has a feature that allows you to observe movement of objects in 8 different areas on the screen, and the words 'MOTION DETECTED' appear on the screen when movement is detected.
Activity can be monitor more efficiently.



1) When the SPECIAL menu screen is displayed, press the Function Setup switch so that the arrow indicates 'MOTION DET' .

2) Set up the mode using the Function Setup switch.

- SENSITIVITY : You can select up to 8 MD areas. When SENSITIVITY number is high, motion detection sensitivity is increased to recognize even small movement.
- AREA MODE : Determines whether to use the MD area selected in SENSITIVITY.
- SEL POS : Determines which of the 4 vertices of each MD area is to be used.
- XPOS : Determines the coordinate of the horizontal axis for SEL POS.
- YPOS : Determines the coordinate of the vertical axis for SEL POS.
- FILL→SET : Fills in a selected MD area. The color of the area can be selected from brown, orange, blue, cyan, green, yellow, magenta and red.
- RETURN : Select this to save the MOTION DET menu settings and return to the SPECIAL menu.

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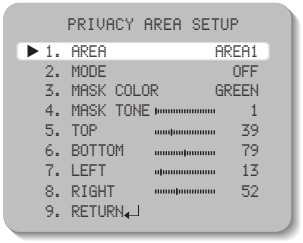
PRIVACY : Mask an area you want to hide on the screen.



1) When the SPECIAL menu screen is displayed, press the Function Setup switch so that the arrow indicates 'PRIVACY'.
2) Set up the mode using the Function Setup switch.
   - AREA : You can select up to 12 PRIVACY areas.
   - MODE : Determines whether to use the area selected in the AREA.
   - MASK COLOR : Determine area color. You can select Green, Red, Blue, Black, White, Gray.
   - MASK TONE : Adjust the brightness of MASK COLOR.
   - TOP/BOTTOM/LEFT/RIGHT : Adjust the size and position of the selected area.
   - RETURN : Select this to save the PRIVACY menu settings and return to the SPECIAL menu.

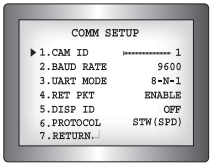
DIS (Digital Image Stabilizer) :
This function mitigates any picture movement due to external factors such as wind.

Notes

- As the DIS function uses the digital zoom the camera's resolution will decrease.
- DIS doesn't operate when background illumination is too low.
- DIS doesn't operate when object pattern is monotonic as like sky or white wall.

COMM ADJ (Communication Adjustment) :
This function sets up the camera communication status when controlling the camera through an external control device.

1) When the SPECIAL menu screen is displayed, press the Function Setup switch so that the arrow indicates 'COMM ADJ'.



2) Set up the mode using the Function Setup witch.
   - CAM ID : Determines the camera's identification number (between 0 and 255).
   - BAUD RATE : You can select 2400/4800/9600/19200/38400/57600 bps.
   - UART MODE : You can select NONE, EVEN or ODD for the parity bits.
   - RET PKT : Determines whether to send a command back to the controller device when a communication control command is sent to the camera.
   - DISP CAM ID : Display camera title on top left corner of the screen.
   - Protocol : Select the communication PROTOCOL. (SAMSUNG-T/PELCO-D/PELCO-P/BOSCH/HONEYWELL/VICON/SAMSUNG-E/PANASONIC)
   - RETURN : Select this to save the PRIVACY menu settings and return to the SPECIAL menu.

* Initial value of communication adjustment

Item	Camera ID	BAUD RATE	UART MODE	PET PKT
Initial value	1	9600	8-NONE-1	ENABLE

LANGUAGE : You can select the menu language according to your requirements.
RETURN : Select this to save the SPECIAL menu settings and return to the MAIN SETUP menu.

EXIT

Select a desired EXIT mode using the Function Setup switch.
- SAVE : Save the current settings and exit the MAIN SETUP menu.
- NOT SAVE : Do not save the current settings and exit the MAIN SETUP menu.
- RESET : Resets the camera settings to the factory defaults. Language, Communication and Monitor settings are not initialized.

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Troubleshooting

If you have trouble operating your camera, refer to the following table.
If the guidelines do not enable you to solve the problem, contact an authorized technician.

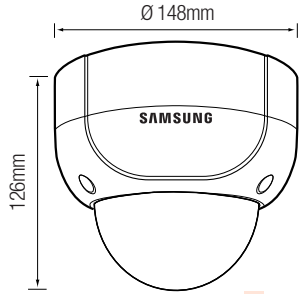
- **Nothing appears on the screen.**
  - ▶ Check that the power cord and line connection between the camera and monitor are fixed properly.
  - ▶ Check that you have properly connected UTP cable or BNC cable to the camera.
- **The image on the screen is dim.**
  - ▶ Is lens stained with dirt? Clean your lens with soft, clean cloth.
  - ▶ Set the monitor to proper condition.
  - ▶ If the camera is exposed to too strong light, change the camera position.
- **The image on the screen is dark.**
  - ▶ Adjust the contrast feature of the monitor.
  - ▶ If you have an intermediate device, set the 75Ω / Hi-z properly.
- **The camera is not working properly, and the surface of the camera is hot.**
  - ▶ Check that you have properly connected the camera to an appropriate power source.
- **The SENS-UP function does not work.**
  - ▶ Check that AGC of EXPOSURE SETUP menu is 'OFF'.
  - ▶ Check that SHUTTER of EXPOSURE SETUP menu is 'A.FLK' or 'MANUAL'.
- **The Motion Detection function does not work.**
  - ▶ Check that MOTION DET of SPECIAL SETUP menu is 'OFF'.
- **Color is not correct.**
  - ▶ Check the setting of WHITE BAL SETUP menu .
- **The screen flickers continually.**
  - ▶ Check that direction of camera turns toward the Sun.
- **When coaxial communication is not available:**
  - ▶ Make sure that the camera and monitor are installed within the recommended distance.
  - ▶ Use the video amplifier equivalent to coaxitron if the recommended installation distance is exceeded.

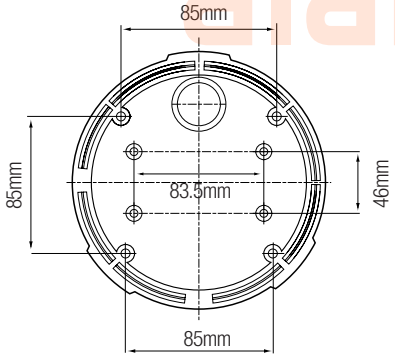
Specifications

	SCV-2080RN	SCV-2080RP
ELECTRICAL		
Input Voltage	DC 12V ± 10% / AC 24V ± 10%	
Power Consumption	Max 5W (LED ON)	
VIDEO		
Imaging Device	1/3 inch, Diagonal 6mm Super HAD CCD	
Total Pixels	811(H) x 508(V)	795(H) x 596(V)
Effective Pixels	768(H) x 494(V)	752(H) x 582(V)
Scanning System	2:1 Interlace	
Synchronization	Internal /Line-Lock	
Frequency	H : 15.734KHz V : 59.94Hz	H : 15.625KHz V : 50.00Hz
Horizontal Resolution	COLOR : 600TVL, B/W : 700TVL	
Min. Illumination	LED ON : 0Lux / LED OFF : 0.15Lux(Color, F1.2), 0.0003Lux(Color,SENS-UP x512)	
Visibility distance(IR LED)	30m(10EA)	
S/N (Y Signal)	52dB (Weight On, AGC Off)	
Video Output	CVBS : 1.0Vp-p, 75Ω composite	
LENS		
Zoom Ratio	3.6x (Manual)	
Focus Length	2.8 ~ 10.0mm (F1.2)	
Angular Field of View	H : 94.4°(Wide) ~ 28°(Tele) / V : 69.2°(Wide) ~ 21°(Tele)	
PAN / TILT / ROTATE		
Pan / Tilt / Rotate Range	0°~ 340°/ 0°~ 146°/ 0°~ 340°	
OPERATIONAL		
Electronic Shutter Speed	1/60 ~ 1/120k sec	1/50 ~ 1/120k sec
On Screen Display	NTSC : 7 Languages, PAL : 15 Languages	
SSDR	On / Off (Level adjustable)	
Backlight Compensation	BLC / HLC / OFF	
Day & Night	COLOR / B/W / AUTO (ICR)	
Gain Control	Low / High / Off	
White Balance	ATW /Outdoor / Indoor / Manual / AWC (1,700°K ~ 11,000°K)	
SENS-UP (frame Integration)	Auto /Off (Selectable x2 ~ x512)	
Motion Detection	On / Off (8 Programmable zones)	
Privacy Masking	On / Off (12 Programmable zones)	
3D Noise Filter (SSNRIII)	On / Off (Level adjustable)	
Digital Zoom	On / Off (x1 ~ x16)	
Digital Image Stabilization(DIS)	On / Off	
Camera Title	On / Off (Displayed 15 Characters)	
Sharpness	On / Off (Level adjustable)	
Flip / Mirror	On / Off	
Communication	Coaxial, RS-485	
Protocol	Coaxial(Pelco), RS-485(SAMSUNG-T, PELCO-P, PELCO-D, VICON, PANASONIC, BOSCH, HONEYWELL, SAMSUNG-E)	
ENVIRONMENTAL		
Operating Temperature / Humidity	-10°C ~ +50°C / 30% ~ 80% RH	
MECHANICAL		
Water Resistance	IP66	
Dimension (Weight)	Ø148 x 126mm (1.3Kg)	

※ **The specification for this product may change without prior notice for product improvement.**

Dimension





DECLARATION OF CONFORMITY

Application of Council Directive(s)	2004 / 108 / EC
Manufacturer's Name	SAMSUNG TECHWIN CO., LTD
Manufacturer's Address	SAMSUNG TECHWIN CO., LTD
	42, SUNGJU-DONG CHANGWON-CITY,
	KYUNGNAM, KOREA, 641-716
European Representative Name	
European Representative Address	
Equipment Type/Environment	CCTV Camera
Model Name	SCV-2080RP
Beginning Serial NO.	C5MR6V3Z200001X
Year of Manufacture	2010.02.01
Conformance to	EN 55022 : 2006
	EN 50130-4 : 2003

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We, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s).

Manufacturer	SAMSUNG TECHWIN CO., LTD	Legal Representative in Europe
Signature	BJ Gu	Signature
Full Name	BONJENG GU	Full Name
Position	QUALITY CONTROL MANAGER	Position
Place	CHANGWON, KOREA	Place
Date	2010.02.01	Date

SAMSUNG TECHWIN

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SALES NETWORK

• **SAMSUNG TECHWIN CO., LTD.**
145-3, Sangdaewon 1-dong, Jungwon-gu, Seongnam-si Gyeonggi-do, Korea, 462-703
TEL : +82-31-740-8151~8 FAX : +82-31-740-8145

• **SAMSUNG TECHWIN AMERICA Inc.**
1480 Charles Willard St, Carson, CA 90746, UNITED STATES
Tol Free : +1-877-213-1222 FAX : +1-310-632-2195
www.samsungcctvusa.com

• **SAMSUNG TECHWIN EUROPE LTD.**
Samsung House, 1000 Hillswood Drive, Hillswood Business Park Chertsey, Surrey, UNITED KINGDOM KT16 0PS
TEL : +44-1932-45-5300 FAX : +44-1932-45-5325

www.samsungtechwin.com
www.samsungsecurity.com

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